

# Search History

NPL + PAT.

Set	Items	Description
S1	3689636	S INTEGRATED()CIRCUIT? OR CIRCUIT? OR CHIP? OR SEMICONDUCTOR? OR SEMI()CONDUCTOR?
S2	108420	S ICCIRCUIT? OR DUT? ? OR CONTROLCIRCUIT? OR LOGICCIRCUIT? OR IC(5N) (INTEGRAT? OR CIRCUIT?)
S3	1324631	S SEMICONDUCTOR? OR SEMI()CONDUCTOR? OR ASIC? ? OR INTEGRATED()CIRCUIT? OR IC()CIRCUIT?
S4	492505	S ICCIRCUIT? OR ICCHIP? OR IC()CHIP? OR (SEMICONDUCT? OR SEMI()CONDUCT?) () (CHIP? OR MODULE? OR DEVIC?)
S5	315	S (JTAG? OR JOINT()TEST()ACTION()GROUP? OR IEEE(5N) (11491 OR 1149()1)) (3N) (DEVIC? OR APPARATUS? OR CHIP? ? OR CIRCUIT? OR BOARD? OR PCB? ? OR PRINTEDCIRCUIT?)
S6	854	S JTAG OR JOINT()TEST()ACTION()GROUP OR IEEE(5N) (11491 OR 1149()1)
S7	1127	S BOUNDARYSCAN? OR BOUNDARY() (SCAN? OR MONITOR? OR TEST?)
S8	0	S BOUNDARYTEST? OR BOUNDARYMONITOR?
S9	62472	S CRC OR (SELF OR AUTO) () (ASSESS? OR MONITOR? OR COMPAR? OR SIMULAT?) OR MUT? ? OR UNDERTTEST? OR DUT? ?
S10	1415	S (S1:S4 OR S9) AND S5:S8
S11	1720	S S5:S8
S12	1720	S S10:S11
S13	211	S MULTIPLEX? OR MULTI()PLEX? OR MUX OR MUXES OR MUXED OR MUXING
S14	39	S (UPDAT? OR UP() (DATE? OR DATING)) (5N) (REGISTER? OR CIRCUIT?)
S15	1	S SHIFT()CAPTUR? OR SHIFTCAPTUR?
S16	195	S (SHIFT? OR CAPTUR?) (3N) (REGISTER? OR CIRCUIT?)
S17	211	S BUFFER? OR CACHE?
S18	115	S PAD? ?
S19	1083	S IC=G01R?
S20	918	S MC=(S01? OR U11?)
S21	211	S S12 AND S13
S22	46	S S21 AND S14:S16
S23	50	S S21 AND S17:S18
S24	180	S S21 AND S19:S20
S25	211	S S21:S24
S26	138	S S25 AND AC=US/PR
S27	120	S S26 AND AY=(1970:2002)/PR
S28	118	S S26 NOT AY=(2003:2006)/PR
S29	73	S S25 NOT S26
S30	45	S S29 AND AY=1970:2002
S31	59	S S29 NOT AY=2003:2006
S32	184	S S27:S28 OR S30:S31
S33	184	IDPAT (sorted in duplicate/non-duplicate order)

? show files

[File 347] **JAPIO** Dec 1976-2005/Dec(Updated 060404)

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[File 350] **Derwent WPIX** 1963-2006/UD=C200659

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*\*File 350: DWPI has been enhanced to extend content and functionality of the database. For more info, visit <http://www.dialog.com/dwpi/>.*

.....

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[File 256] **TecInfoSource** 82-2006/Jan

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? s integrated()circuit? or circuit? or chip? or semiconductor? or  
semi()conductor?

Processing

Processing

1400510 INTEGRATED

1880093 CIRCUIT?

540410 INTEGRATED(W)CIRCUIT?

1880093 CIRCUIT?

421246 CHIP?

1751552 SEMICONDUCTOR?

476425 SEMI

228083 CONDUCTOR?

6390 SEMI(W)CONDUCTOR?

S1 3597333 S INTEGRATED()CIRCUIT? OR CIRCUIT? OR CHIP? OR SEMICONDUCTOR? OR SEMI()CONDUCTOR?

? s iccircuit? or dut? ? or controlcircuit? or logiccircuit? or ic(5n)(integrat? or circuit?)

0 ICCIRCUIT?

84517 DUT? ?

6 CONTROLCIRCUIT?

2 LOGICCIRCUIT?

188322 IC

2376928 INTEGRAT?

1880093 CIRCUIT?

15832 IC(5N)(INTEGRAT? OR CIRCUIT?)

S2 100250 S ICCIRCUIT? OR DUT? ? OR CONTROLCIRCUIT? OR LOGICCIRCUIT? OR IC(5N)(INTEGRAT? OR CIRCUIT?)

? s semiconductor? or semi()conductor? or asic? ? or integrated()circuit? or ic()circuit?

Processing

1751552 SEMICONDUCTOR?

476425 SEMI

228083 CONDUCTOR?

6390 SEMI(W)CONDUCTOR?

34515 ASIC? ?

1400770 INTEGRATED?

1880093 CIRCUIT?

540411 INTEGRATED?(W)CIRCUIT?

188322 IC

1880093 CIRCUIT?

465 IC(W)CIRCUIT?

S3 2170795 S SEMICONDUCTOR? OR SEMI()CONDUCTOR? OR ASIC? ? OR  
INTEGRATED?()CIRCUIT? OR IC()CIRCUIT?

? s iccircuit? or icchip? or ic()chip? or (semiconduct? or  
semi()conduct?)() (chip? or module? or devic?)

Processing

0 ICCIRCUIT?

1 ICCHIP?

188322 IC

421246 CHIP?

2865 IC(W)CHIP?

1904363 SEMICONDUCT?

476425 SEMI

3034559 CONDUCT?

12891 SEMI(W)CONDUCT?

421246 CHIP?

459315 MODULE?

2486578 DEVIC?

324824 (SEMICONDUCT? OR SEMI(W)CONDUCT?) (W) ((CHIP? OR MODULE?) OR DEVIC?)

S4 327355 S ICCIRCUIT? OR ICCHIP? OR IC()CHIP? OR (SEMICONDUCT? OR  
SEMI()CONDUCT?)() (CHIP? OR MODULE? OR DEVIC?)

? s (jtag? or joint?()test?()action?()group? or ieee(5n)(11491 or  
1149()1)) (3n) (devic? or apparatus? or chip? ? or circuit? or board? or pcb? ?  
or printedcircuit?)

Processing

Processing

Processing

Processing

798 JTAG?

1019932 JOINT?

6507968 TEST?

2027809 ACTION?

4964348 GROUP?

147 JOINT?(W)TEST?(W)ACTION?(W)GROUP?

741371 IEEE

32 11491

2931 1149

13001637 1

1364 1149(W)1

968 IEEE(5N)(11491 OR 1149(W)1)

2486578 DEVIC?

567842 APPARATUS?

405606 CHIP? ?

1880093 CIRCUIT?

471771 BOARD?

68056 PCB? ?

8 PRINTEDCIRCUIT?

S5 255 S (JTAG? OR JOINT?())TEST?()ACTION?()GROUP? OR IEEE(5N)(11491 OR 1149()1)) (3N)(DEVIC? OR APPARATUS? OR CHIP? ? OR CIRCUIT? OR BOARD? OR PCB? ? OR PRINTEDCIRCUIT?)

? s jtag or joint()test()action()group or ieee(5n)(11491 or 1149()1)

Processing

776 JTAG

829070 JOINT

3507216 TEST

1803599 ACTION

3549441 GROUP

142 JOINT(W)TEST(W)ACTION(W)GROUP

741371 IEEE

32 11491

2931 1149

13001637 1

1364 1149(W)1

968 IEEE(5N)(11491 OR 1149(W)1)

S6 1583 S JTAG OR JOINT()TEST()ACTION()GROUP OR IEEE(5N)(11491 OR 1149()1)

? s boundaryscan? or boundary()(scan? or monitor? or test?)

Processing

1 BOUNDARYSCAN?

1372082 BOUNDARY

1329714 SCAN?

1359143 MONITOR?

6507968 TEST?

3622 BOUNDARY(W)((SCAN? OR MONITOR?) OR TEST?)

S7 3622 S BOUNDARYSCAN? OR BOUNDARY()(SCAN? OR MONITOR? OR TEST?)

? s boundarytest? or boundarymonitor?

0 BOUNDARYTEST?

0 BOUNDARYMONITOR?

S8 0 S BOUNDARYTEST? OR BOUNDARYMONITOR?

? s crc or (self or auto)()(assess? or monitor? or compar? or simulat?) or  
mut? ? or undertest? or dut? ?

Processing

Processing

11688 CRC

1415204 SELF

139996 AUTO

2261621 ASSESS?

1359143 MONITOR?

8140977 COMPAR?

3623751 SIMULAT?

15453 (SELF OR AUTO)(W)((ASSESS? OR MONITOR?) OR COMPAR?) OR SIMULAT?)

9599 MUT? ?

52 UNDERTEST?

84517 DUT? ?

S9 121134 S CRC OR (SELF OR AUTO)()(ASSESS? OR MONITOR? OR COMPAR? OR  
SIMULAT?) OR MUT? ? OR UNDERTEST? OR DUT? ?

? d s

Set Items Description

S1 3597333 S INTEGRATED()CIRCUIT? OR CIRCUIT? OR CHIP? OR SEMICONDUCTOR? OR SEMI()CONDUCTOR?  
 S2 100250 S ICCIRCUIT? OR DUT? ? OR CONTROLCIRCUIT? OR LOGICCIRCUIT? OR IC(5N)(INTEGRAT? OR CIRCUIT?)  
 S3 2170795 S SEMICONDUCTOR? OR SEMI()CONDUCTOR? OR ASIC? ? OR INTEGRATED?()CIRCUIT? OR IC()CIRCUIT?  
 S4 327355 S ICCIRCUIT? OR ICCHIP? OR IC()CHIP? OR (SEMICONDUCT? OR SEMI()CONDUCT?) () (CHIP? OR MODULE? OR DEVIC?)  
 S5 255 S (JTAG? OR JOINT?()TEST?()ACTION?()GROUP? OR IEEE(5N)(11491 OR 1149()1)) (3N) (DEVIC? OR APPARATUS? OR CHIP? ? OR CIRCUIT? OR BOARD? OR PCB? ? OR PRINTEDCIRCUIT?)  
 S6 1583 S JTAG OR JOINT()TEST()ACTION()GROUP OR IEEE(5N)(11491 OR 1149()1)  
 S7 3622 S BOUNDARYSCAN? OR BOUNDARY() (SCAN? OR MONITOR? OR TEST?)  
 S8 0 S BOUNDARYTEST? OR BOUNDARYMONITOR?  
 S9 121134 S CRC OR (SELF OR AUTO) () (ASSESS? OR MONITOR? OR COMPAR? OR SIMULAT?) OR MUT? ? OR UNDERTTEST? OR DUT? ?

? s (s1:s4 or s9) and s5:s8

Processing

3679405 S1:S4

121134 S9

4261 S5:S8

S10 3262 S (S1:S4 OR S9) AND S5:S8

? limitall /s10

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? s integrated()circuit? or circuit? or chip? or semiconductor? or  
semi()conductor?

Processing

Processing

1400510 INTEGRATED

1880093 CIRCUIT?

540410 INTEGRATED(W)CIRCUIT?



1880093 CIRCUIT?

421246 CHIP?

1751552 SEMICONDUCTOR?

476425 SEMI

228083 CONDUCTOR?

6390 SEMI (W) CONDUCTOR?

S1 3597333 S INTEGRATED() CIRCUIT? OR CIRCUIT? OR CHIP? OR SEMICONDUCTOR? OR SEMI() CONDUCTOR?

? s iccircuit? or dut? ? or controlcircuit? or logiccircuit? or ic(5n) (integrat? or circuit?)

0 ICCIRCUIT?

84517 DUT? ?

6 CONTROL CIRCUIT?

2 LOGIC CIRCUIT?

188322 IC

2376928 INTEGRAT?

1880093 CIRCUIT?

15832 IC(5N) (INTEGRAT? OR CIRCUIT?)

S2 100250 S ICCIRCUIT? OR DUT? ? OR CONTROL CIRCUIT? OR LOGIC CIRCUIT? OR IC(5N) (INTEGRAT? OR CIRCUIT?)

? s semiconductor? or semi() conductor? or asic? ? or integrated() circuit? or ic() circuit?

Processing

1751552 SEMICONDUCTOR?

476425 SEMI

228083 CONDUCTOR?

6390 SEMI (W) CONDUCTOR?

34515 ASIC? ?

1400770 INTEGRATED?

1880093 CIRCUIT?

540411 INTEGRATED? (W) CIRCUIT?

188322 IC

1880093 CIRCUIT?

465 IC(W) CIRCUIT?

S3 2170795 S SEMICONDUCTOR? OR SEMI()CONDUCTOR? OR ASIC? ? OR  
INTEGRATED?()CIRCUIT? OR IC()CIRCUIT?

? s iccircuit? or icchip? or ic()chip? or (semiconduct? or  
semi()conduct?)() (chip? or module? or devic?)

Processing

0 ICCIRCUIT?

1 ICCHIP?

188322 IC

421246 CHIP?

2865 IC(W)CHIP?

1904363 SEMICONDUCT?

476425 SEMI

3034559 CONDUCT?

12891 SEMI(W)CONDUCT?

421246 CHIP?

459315 MODULE?

2486578 DEVIC?

324824 (SEMICONDUCT? OR SEMI(W)CONDUCT?) (W) ((CHIP? OR MODULE?) OR DEVIC?)

S4 327355 S ICCIRCUIT? OR ICCHIP? OR IC()CHIP? OR (SEMICONDUCT? OR  
SEMI()CONDUCT?)() (CHIP? OR MODULE? OR DEVIC?)

? s (jtag? or joint?()test?()action?()group? or ieee(5n)(11491 or  
1149()1)) (3n)(devic? or apparatus? or chip? ? or circuit? or board? or pcb? ?  
or printedcircuit?)

Processing

Processing

Processing

798 JTAG?

1019932 JOINT?

6507968 TEST?

2027809 ACTION?

4964348 GROUP?

147 JOINT?(W)TEST?(W)ACTION?(W)GROUP?

741371 IEEE

32 11491

2931 1149

13001637 1

1364 1149(W)1

968 IEEE(5N)(11491 OR 1149(W)1)

2486578 DEVIC?

567842 APPARATUS?

405606 CHIP? ?

1880093 CIRCUIT?

471771 BOARD?

68056 PCB? ?

8 PRINTEDCIRCUIT?

S5 255 S (JTAG? OR JOINT?())TEST?()ACTION?()GROUP? OR IEEE(5N)(11491 OR 1149()1))(3N)(DEVIC? OR APPARATUS? OR CHIP? ? OR CIRCUIT? OR BOARD? OR PCB? ? OR PRINTEDCIRCUIT?)

? s jtag or joint()test()action()group or ieee(5n)(11491 or 1149()1)

Processing

776 JTAG

829070 JOINT

3507216 TEST

1803599 ACTION

3549441 GROUP

142 JOINT(W)TEST(W)ACTION(W)GROUP

741371 IEEE

32 11491

2931 1149

13001637 1

1364 1149(W)1

968 IEEE(5N)(11491 OR 1149(W)1)

S6 1583 S JTAG OR JOINT()TEST()ACTION()GROUP OR IEEE(5N)(11491 OR 1149()1)

? s boundaryscan? or boundary()(scan? or monitor? or test?)

Processing

1 BOUNDARYSCAN?

1372082 BOUNDARY

1329714 SCAN?

1359143 MONITOR?

6507968 TEST?

3622 BOUNDARY(W)((SCAN? OR MONITOR?) OR TEST?)

S7 3622 S BOUNDARYSCAN? OR BOUNDARY()(SCAN? OR MONITOR? OR TEST?)

? s boundarytest? or boundarymonitor?

0 BOUNDARYTEST?

0 BOUNDARYMONITOR?

S8 0 S BOUNDARYTEST? OR BOUNDARYMONITOR?

? s crc or (self or auto)()(assess? or monitor? or compar? or simulat?) or  
mut? ? or undertest? or dut? ?

Processing

Processing

11688 CRC

1415204 SELF

139996 AUTO

2261621 ASSESS?

1359143 MONITOR?

8140977 COMPAR?

3623751 SIMULAT?

15453 (SELF OR AUTO)(W)((ASSESS? OR MONITOR?) OR COMPAR?) OR SIMULAT?)

9599 MUT? ?

52 UNDERTEST?

84517 DUT? ?

S9 121134 S CRC OR (SELF OR AUTO)()(ASSESS? OR MONITOR? OR COMPAR? OR  
SIMULAT?) OR MUT? ? OR UNDERTEST? OR DUT? ?

? s (s1:s4 or s9) and s5:s8

Processing

3679405 S1:S4

121134 S9

4261 S5:S8

S10 3262 S (S1:S4 OR S9) AND S5:S8

? s s5:s8

S11 4261 S S5:S8

? s s10:s11

S12 4261 S S10:S11

? limitall /s12

LIMITALL started

? s multiplex? or multi()plex? or mux or muxes or muxed or muxing

69 MULTIPLEX?

217 MULTI

0 PLEX?

0 MULTI(W)PLEX?

12 MUX

5 MUXES

1 MUXED

1 MUXING

S13 81 S MULTIPLEX? OR MULTI()PLEX? OR MUX OR MUXES OR MUXED OR MUXING

? s (updat? or up()(date? or dating))(5n)(register? or circuit? or flipflop?  
or flip()flop?)

41 UPDAT?

256 UP

16 DATE?

2 DATING

0 UP(W)(DATE? OR DATING)

397 REGISTER?

2982 CIRCUIT?

10 FLIPFLOP?

183 FLIP

170 FLOP?

165 FLIP(W)FLOP?

S14 1 S (UPDAT? OR UP() (DATE? OR DATING)) (5N) (REGISTER? OR CIRCUIT? OR  
FLIPFLOP? OR FLIP() FLOP?)

? s shift()captur? or shiftcaptur?

230 SHIFT

99 CAPTUR?

0 SHIFT(W)CAPTUR?

0 SHIFTCAPTUR?

S15 0 S SHIFT()CAPTUR? OR SHIFTCAPTUR?

? s (shift? or captur?) (3n) (register? or circuit? or flipflop? or  
flip()flop?)

293 SHIFT?

99 CAPTUR?

397 REGISTER?

2982 CIRCUIT?

10 FLIPFLOP?

183 FLIP

170 FLOP?

165 FLIP(W)FLOP?

S16 177 S (SHIFT? OR CAPTUR?) (3N) (REGISTER? OR CIRCUIT? OR FLIPFLOP? OR  
FLIP()FLOP?)

? s buffer? or cache?

63 BUFFER?

44 CACHE?

S17 100 S BUFFER? OR CACHE?

? s pad? ? or cell? ?

53 PAD? ?

374 CELL? ?

S18 418 S PAD? ? OR CELL? ?

? d s

Set Items Description

S1 3597333 S INTEGRATED()CIRCUIT? OR CIRCUIT? OR CHIP? OR SEMICONDUCTOR? OR SEMI()CONDUCTOR?  
 S2 100250 S ICCIRCUIT? OR DUT? ? OR CONTROLCIRCUIT? OR LOGICCIRCUIT? OR IC(5N)(INTEGRAT? OR CIRCUIT?)  
 S3 2170795 S SEMICONDUCTOR? OR SEMI()CONDUCTOR? OR ASIC? ? OR INTEGRATED?()CIRCUIT? OR IC()CIRCUIT?  
 S4 327355 S ICCIRCUIT? OR ICCHIP? OR IC()CHIP? OR (SEMICONDUCT? OR SEMI()CONDUCT?)() (CHIP? OR MODULE? OR DEVIC?)  
 S5 255 S (JTAG? OR JOINT?()TEST?()ACTION?()GROUP? OR IEEE(5N)(11491 OR 1149()1)) (3N)(DEVIC? OR APPARATUS? OR CHIP? ? OR CIRCUIT? OR BOARD? OR PCB? ? OR PRINTEDCIRCUIT?)  
 S6 1583 S JTAG OR JOINT()TEST()ACTION()GROUP OR IEEE(5N)(11491 OR 1149()1)  
 S7 3622 S BOUNDARYSCAN? OR BOUNDARY()(SCAN? OR MONITOR? OR TEST?)  
 S8 0 S BOUNDARYTEST? OR BOUNDARYMONITOR?  
 S9 121134 S CRC OR (SELF OR AUTO)() (ASSESS? OR MONITOR? OR COMPAR? OR SIMULAT?) OR MUT? ? OR UNDERTTEST? OR DUT? ?  
 S10 3262 S (S1:S4 OR S9) AND S5:S8  
 S11 4261 S S5:S8  
 S12 4261 S S10:S11  
 S13 81 S MULTIPLEX? OR MULTI()PLEX? OR MUX OR MUXES OR MUXED OR MUXING  
 S14 1 S (UPDAT? OR UP() (DATE? OR DATING)) (5N)(REGISTER? OR CIRCUIT? OR FLIPFLOP? OR FLIP()FLOP?)  
  
 S15 0 S SHIFT()CAPTUR? OR SHIFTCAPTUR?  
 S16 177 S (SHIFT? OR CAPTUR?) (3N)(REGISTER? OR CIRCUIT? OR FLIPFLOP? OR FLIP()FLOP?)  
 S17 100 S BUFFER? OR CACHE?  
 S18 418 S PAD? ? OR CELL? ?  
  
 ? s s12 and s13  
 4261 S12  
 81 S13  
 S19 81 S S12 AND S13  
  
 ? s s19 and s14:s18  
 81 S19  
 637 S14:S18  
 S20 24 S S19 AND S14:S18

? s s19:s20

S21 81 S S19:S20

? s s21 and py=1970:2002

Processing

Processing

81 S21

3397 PY=1970 : PY=2002

S22 69 S S21 AND PY=1970:2002

? s s21 not py=2003:2006

81 S21

856 PY=2003 : PY=2006

S23 69 S S21 NOT PY=2003:2006

? s s22:s23

S24 69 S S22:S23

? rd

S25 52 RD (UNIQUE ITEMS)

? d s

Set Items Description

S1 3597333 S INTEGRATED()CIRCUIT? OR CIRCUIT? OR CHIP? OR SEMICONDUCTOR? OR SEMI()CONDUCTOR?

S2 100250 S ICCIRCUIT? OR DUT? ? OR CONTROLCIRCUIT? OR LOGICCIRCUIT? OR IC(5N) (INTEGRAT? OR CIRCUIT?)

S3 2170795 S SEMICONDUCTOR? OR SEMI()CONDUCTOR? OR ASIC? ? OR INTEGRATED?()CIRCUIT? OR IC()CIRCUIT?

S4 327355 S ICCIRCUIT? OR ICCHIP? OR IC()CHIP? OR (SEMICONDUCT? OR SEMI()CONDUCT?) () (CHIP? OR MODULE? OR DEVIC?)

S5 255 S (JTAG? OR JOINT?()TEST?()ACTION?()GROUP? OR IEEE(5N) (11491 OR 1149()1)) (3N) (DEVIC? OR APPARATUS? OR CHIP? ? OR CIRCUIT? OR BOARD? OR PCB? ? OR PRINTEDCIRCUIT?)

S6 1583 S JTAG OR JOINT()TEST()ACTION()GROUP OR IEEE(5N) (11491 OR 1149()1)



S7 3622 S BOUNDARYSCAN? OR BOUNDARY() (SCAN? OR MONITOR? OR TEST?)  
 S8 0 S BOUNDARYTEST? OR BOUNDARYMONITOR?  
 S9 121134 S CRC OR (SELF OR AUTO) () (ASSESS? OR MONITOR? OR COMPAR? OR  
 SIMULAT?) OR MUT? ? OR UNDERTTEST? OR DUT? ?  
 S10 3262 S (S1:S4 OR S9) AND S5:S8  
 S11 4261 S S5:S8  
 S12 4261 S S10:S11  
 S13 81 S MULTIPLEX? OR MULTI() PLEX? OR MUX OR MUXES OR MUXED OR MUXING  
 S14 1 S (UPDAT? OR UP() (DATE? OR DATING)) (5N) (REGISTER? OR CIRCUIT? OR  
 FLIPFLOP? OR FLIP() FLOP?)  
 S15 0 S SHIFT() CAPTUR? OR SHIFTCAPTUR?  
 S16 177 S (SHIFT? OR CAPTUR?) (3N) (REGISTER? OR CIRCUIT? OR FLIPFLOP? OR  
 FLIP() FLOP?)  
 S17 100 S BUFFER? OR CACHE?  
 S18 418 S PAD? ? OR CELL? ?  
 S19 81 S S12 AND S13  
 S20 24 S S19 AND S14:S18  
 S21 81 S S19:S20  
 S22 69 S S21 AND PY=1970:2002  
 S23 69 S S21 NOT PY=2003:2006  
 S24 69 S S22:S23  
 S25 52 RD (unique items)  
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